

$$table1 := \begin{bmatrix} 1 & 2000 \\ 2 & 2400 \end{bmatrix}$$

$$table2 := \begin{bmatrix} 1 & 1 & 500 \\ 2 & 1 & 600 \\ 1 & 2 & 45.6 \\ 2 & 2 & 200 \\ 1 & 3 & 123 \\ 2 & 3 & 2400 \end{bmatrix}$$

$$vlook(z) := vlookup(z, table1, \mathbf{ORIGIN} + 1)_{\mathbf{ORIGIN}}$$

$$table3 := \text{augment}\left(table2, \overrightarrow{vlook\left(table2^{(\mathbf{ORIGIN})}\right)}\right)$$

$$table3 = \begin{bmatrix} 1 & 1 & 500 & 2000 \\ 2 & 1 & 600 & 2400 \\ 1 & 2 & 45.6 & 2000 \\ 2 & 2 & 200 & 2400 \\ 1 & 3 & 123 & 2000 \\ 2 & 3 & 2400 & 2400 \end{bmatrix} \quad \overrightarrow{vlook\left(table2^{(\mathbf{ORIGIN})}\right)} = \begin{bmatrix} 2000 \\ 2400 \\ 2000 \\ 2400 \\ 2000 \\ 2400 \end{bmatrix}$$

$$table4 := \text{stack}\left(\left[\begin{array}{cccc} \text{"El.-ID"} & \text{"Load-ID"} & \text{"Force"} & \text{"MaxForce"} \end{array} \right], table3\right)$$

$$table4 = \begin{bmatrix} \text{"El.-ID"} & \text{"Load-ID"} & \text{"Force"} & \text{"MaxForce"} \\ 1 & 1 & 500 & 2000 \\ 2 & 1 & 600 & 2400 \\ 1 & 2 & 45.6 & 2000 \\ 2 & 2 & 200 & 2400 \\ 1 & 3 & 123 & 2000 \\ 2 & 3 & 2400 & 2400 \end{bmatrix}$$